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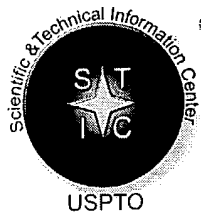
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STIC Search Report

EIC 2100

STIC Database Tracking Number: 131526

TO: Mohammad Ali
Location:
Art Unit : 2177
Wednesday, September 01, 2004

Case Serial Number: 10/040192

From: David Holloway
Location: EIC 2100
PK2-4B30
Phone: 308-7794

david.holloway@uspto.gov

Search Notes

Dear Examiner Ali,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David



STIC EIC 2100 Search Request Form

Today's Date: 9/1/04

What date would you like to use to limit the search?

Priority Date: 10/27/00 Other: _____

Name Mohammad Ali

AU 217E Examiner # 78414

Room # 4118 Phone 605-4356

Serial # 10/020192

Format for Search Results (Circle One):

PAPER ☒ DISK ☒ EMAIL ☐

Where have you searched so far?

USP ☒ DWPI ☒ EPO ☒ JPO ☒ ACM ☒ IBM TDB ☒
IEEE ☐ INSPEC ☐ SPI ☐ Other ☐

Is this a "Fast & Focused" Search Request? (Circle One) ☒ YES ☐ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

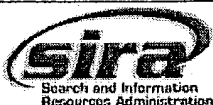
What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

File structure streaming service capable to transmit data quickly by reducing waste of a network bandwidth by not including unnecessary files in file transmission & expanding an additional service by including a reserved field in a file.

"synchronizing multimedia data" "descriptor information" "timestamp field" "audio block" "video block", "offset into key index" "clipinfo user"

STIC Searcher 1 and 2 Phone 305-7794

Date picked up 9-1-04 Date Completed 9-2-04



Set	Items	Description
S1	392992	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC? OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR - CAST) OR MBONE? OR M()BONE
S2	551386	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL() (AUDIO? OR VIDEO?) OR ASF OR REAL()MEDIA
S3	43370	HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	118002	BANDWIDTH? OR TRAFFIC? OR CONGEST? OR LOAD()BALANC?
S5	277	(S1 OR S2) AND S3 AND S4
S6	1336292	NONESSENTIAL? OR "NOT"()ESSENTIAL? OR STRIPPED()DOWN OR RE- DUCED OR UNNECESSAR? OR "NOT"()NECESSAR?
S7	26	S5 AND S6
S8	2	S7 AND IC=G06F?
S9	1	S8 NOT AD>20011024
S10	20	S7 NOT AD>20011024
S11	20	S9 OR S10
S12	20	IDPAT (sorted in duplicate/non-duplicate order)
S13	20	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456
(c) 2004 Thomson Derwent

13/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015030611 **Image available**
WPI Acc No: 2003-091128/200308
XRPX Acc No: N03-072073

WDM multicasting system for next generation Internet application, adds header containing multicast information of local routes through nodes, to data payload at wavelength similar to that of payload

Patent Assignee: CHANG G (CHAN-I); CHOWDHURY A M (CHOW-I); ELLINAS G (ELLI-I); UNIV CALIFORNIA (REGC)

Inventor: CHANG G; CHOWDHURY A M; ELLINAS G

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020141015	A1	20021003	US 2001774289	A	20010130	200308 B
US 6757497	B2	20040629	US 2001774289	A	20010130	200443

Priority Applications (No Type Date): US 2001774289 A 20010130

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020141015	A1		72	H04J-004/00	
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US 6757497	B2			H04J-014/00	
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Abstract (Basic): US 20020141015 A1

NOVELTY - An adder adds a **header** containing **multicast** information indicative of local routes through nodes, to a data payload at a wavelength similar to that of the payload. A detector detects the **multicast** information at the nodes to determine switch control signals for the nodes based on which a selector selects local routes through the nodes.

USE - For **multicasting** data payload through various nodes of WDM system for next generation internet (NGI) application.

ADVANTAGE - Efficiently directs data payload from source to several destinations by providing suitable **multicast** information **header** to the payload at the payload wavelength band, hence required **bandwidth** and communication cost are **reduced** and network survivability is increased.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining data payload **multicasting** in optical network.

pp; 72 DwgNo 16/40

Title Terms: WDM; SYSTEM; GENERATE; APPLY; ADD; **HEADER** ; CONTAIN; INFORMATION; LOCAL; ROU

13/5/13 (Item 13 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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011129805 **Image available**
WPI Acc No: 1997-107729/199710
XRPX Acc No: N97-089141

Video **data bitstream decoding system - using macroblocks of data**
including input Motion Compensation data and input Transform Coded data

Patent Assignee: LSI LOGIC CORP (LSIL-N)

Inventor: CHAU K K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5596369	A	19970121	US 95377160	A	19950124	199710 B

Priority Applications (No Type Date): US 95377160 A 19950124

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5596369	A		14	H04N-007/50	

Abstract (Basic): US 5596369 A

The system has a motion pipeline for processing an input (M) data to produce a processed M data. A transform pipeline processes an input (I) data to produce a processed I data. There is a controller which manages the transform pipeline and the motion picture pipeline, respectively, to process the input I data and the input M data concurrently.

The length of time required for processing each macroblock is variable, and is determined by the largest of a time length required for the motion pipeline to process the input M data and a time length for the transform pipeline to process the input I data of the macroblock. Each macroblock may comprise a **header**, and there may be a data memory for storing the processed M and I data.

USE/ADVANTAGE - For **audio / video** data compression and transmission, esp. for statistically derived decoding **MPEG** compensation and transform coded **video** data. Improved **bandwidth** utilisation with lower instantaneous peak **bandwidth**. Lower memory cost. **Reduced** power consumption.

Dwg.5/10

Title Terms: **VIDEO**; DATA; BITSTREAM; DECODE; SYSTEM; DATA; INPUT; MOTION; COMPENSATE; DATA; INPUT; TRANSFORM; CODE; DATA

Index Terms/Additional Words: MPEG

Derwent Class: W02; W03; W04

International Patent Class (Main): H04N-007/50

File Segment: EPI

Set	Items	Description
S1	333602	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC? OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR - CAST) OR MBONE? OR M()BONE
S2	160683	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL() (AUDIO? OR VIDEO?) OR ASF OR REAL()MEDIA
S3	43397	HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	9700	DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA) ()TYPE?
S5	91405	SYNC OR SYNCs OR SYNCHRONI?
S6	186893	DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S7	16728	(BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? ? OR FILE? OR AUD- IO) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET- INFO?
S8	94078	TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S9	16033	S1(2N)S2
S10	752	S9(10N)S3
S11	16	S10(10N)S5
S12	3	S11(10N) (S4 OR S6 OR S7 OR S8)
S13	155	S10(S) (S4 OR S6 OR S7 OR S8)
S14	0	(S12 OR S13) AND IC=G06F-007?
S15	30	(S12 OR S13) AND IC=(G06F? OR G09G? OR H04L?)
S16	46	S11 OR S15
S17	22	S16 NOT AD>20001024
S18	22	IDPAT (sorted in duplicate/non-duplicate order)
S19	22	IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Aug W04		
(c) 2004 European Patent Office		
File 349:PCT FULLTEXT 1979-2002/UB=20040826, UT=20040819		
(c) 2004 WIPO/Univentio		

19/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01267610

Method and apparatus for dynamic targeting of streaming media using statistical data

Verfahren und Apparat zum dynamischen Zielrichten von Medienströmen mit Hilfe von statistischen Daten

Methode et appareil pour le ciblage dynamique de medias a flux continu en utilisant des donnees statistique

PATENT ASSIGNEE:

International Business Machines Corporation, (200128), New Orchard Road, Armonk, NY 10504, (US), (Applicant designated States: all)

INVENTOR:

Bassett, Ronald W., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Beadle, Bruce A., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Brown, Michael Wayne, c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Doud, Leon P., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Paolini, Michael A., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

LEGAL REPRESENTATIVE:

Waldner, Philip (84391), IBM United Kingdom Limited, Intellectual Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 1093070 A2 010418 (Basic)
EP 1093070 A3 030319

APPLICATION (CC, No, Date): EP 2000308511 000928;

PRIORITY (CC, No, Date): US 409601 990930

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 93

NOTE:

Figure number on first page: 15

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200116	536
SPEC A	(English)	200116	8826
Total word count - document A			9362
Total word count - document B			0
Total word count - documents A + B			9362

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION 706 for presenting audio information.

In Figure 7C, a header 716 is an example of **header** information found in a video packet used in a **video stream**. In this example, **header** 716 includes an ID field 718, a **time stamp** field 720, and a CRC field 722. ID field 718 is used to identify the type of data contained within the packet, while **time stamp** 720 in this example is used for synchronization purposes. CRC field 722 may be used...

19/3,K/3 (Item 3 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01262369

Method and apparatus for dynamic distribution of controlled and additional selective overlays in a streaming media
Verfahren und Apparat zum dynamischen Verteilen von kontrollierten und zusätzlich ausgewählten Überlagerungsdaten in einem Medienstrom
Methode et appareil de repartition dynamique de donnees superposees controlees et selectionnees additionnellement dans des medias a flux continu

PATENT ASSIGNEE:

International Business Machines Corporation, (200128), New Orchard Road, Armonk, NY 10504, (US), (Applicant designated States: all)

INVENTOR:

Bassett, Ronald W., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Beadle, Bruce A., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Brown, Michael Wayne, c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Doud, Leon P., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
Paolini, Michael A., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

LEGAL REPRESENTATIVE:

Waldner, Philip (84391), IBM United Kingdom Limited, Intellectual Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 1089207 A2 010404 (Basic)
EP 1089207 A3 030402

APPLICATION (CC, No, Date): EP 2000308512 000928;

PRIORITY (CC, No, Date): US 409593 990930

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60 ; G06F-017/30

ABSTRACT WORD COUNT: 62

NOTE:

Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200114	757
SPEC A	(English)	200114	8526
Total word count - document A			9283
Total word count - document B			0
Total word count - documents A + B			9283

INTERNATIONAL PATENT CLASS: G06F-017/60 ...

... G06F-017/30

...SPECIFICATION 706 for presenting audio information.

In Figure 7C, a header 716 is an example of **header** information found in a video packet used in a **video stream**. In this example, **header** 716 includes an ID field 718, a **time stamp** field 720, and a CRC field 722. ID field 718 is used to identify the type of data contained within the packet, while **time stamp** 720 in this example is used for synchronization purposes. CRC field 722 may be used...

...synchronization points between the two data streams.

Next, in Figure 7D, another example of a **header** used for data packets in a **video stream** is illustrated. **Header** 724 includes an ID field 726, a type field 728, a location field 730, a...

...field 734. ID field 726 is used to identify the data packet as

containing video **data** . **Type** field 728 in this example may be used to identify the type of video, such...

19/3,K/9 (Item 9 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00787019

Method and apparatus for decoding of digital audio data coded in layer 1 or 2 of MPEG format

Verfahren und Vorrichtung zur Dekodierung digitaler, im MPEG-Format Layer 1 oder 2 kodierter Audiodaten

Methode et appareil pour decoder des donnees audio numeriques codees selon le format MPEG de niveau 1 ou 2

PATENT ASSIGNEE:

SICAN, GESELLSCHAFT FUR SILIZIUM-ANWENDUNGEN UND CAD/CAT NIEDERSACHSEN mbH, (1902800), Garbsener Landstrasse 10, D-30419 Hannover, (DE),
(applicant designated states:
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Gao, Fei, Heisenstrasse 3, 30167 Hannover, (DE)
Oberthur, Thomas, Engerode 32, 30880 Laatzen, (DE)
Tilman, Mathias, Osterwalder Wende 21, 30419 Hannover, (DE)

LEGAL REPRESENTATIVE:

Gerstein, Hans Joachim Patent- & Rechtsanwälte, Steuerberater et al (88701), Wilhelm-Busch-Strasse 2, 30167 Hannover, (DE)

PATENT (CC, No, Kind, Date): EP 734021 A2 960925 (Basic)
EP 734021 A3 990526

APPLICATION (CC, No, Date): EP 96104308 960319;

PRIORITY (CC, No, Date): DE 19510226 950323; DE 19515612 950428

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G11B-020/10;

ABSTRACT WORD COUNT: 197

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	822
SPEC A	(English)	EPAB96	4820
Total word count - document A			5642
Total word count - document B			0
Total word count - documents A + B			5642

...CLAIMS digital audio data coded in layer 1 or 2 of MPEG format, comprising the processes:

- **Synchronisation** of frames of a **stream** of said **audio** data comprising a synchronization data word, a **header**, a page information, quantized subband samples and optional additionally informations;
- Decoding of said header;
- Reading...

...digital audio data coded in layer 1 or 2 of MPEG format, comprising the processes:

- **Synchronisation** of frames of a **stream** of said **audio** data comprising a synchronization data word, a **header**, a page information, quantized subband samples and optional additionally informations;
- Decoding of said header;
- Reading...

19/3,K/20 (Item 20 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00449427 **Image available**

ACTIVE STREAM FORMAT FOR HOLDING MULTIPLE MEDIA STREAMS
FORMAT DE FLUX DE DONNEES ACTIF PERMETTANT D'ENTREtenir DES FLUX DE
SUPPORTS MULTIPLES

Patent Applicant/Assignee:

MICROSOFT CORPORATION,

Inventor(s):

LEVI Steven P,
VANANTWERP Mark D,
DOWELL Craig M,
KNOWLTON Chadd B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9839891 A1 19980911

Application: WO 98US4459 19980306 (PCT/WO US9804459)

Priority Application: US 97813151 19970307

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM
KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR
GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 8465

Main International Patent Class: H04L-029/06

Fulltext Availability:

Detailed Description

Detailed Description

... to fill in the contents of the ASF stream in accordance with this format.

The **ASF stream** 16 is divisible into a **header** section 28, a data section 30 and an **index** section 49. In general, the header section is first transmitted from the source computer 10...

...computer 10 to the destination computer 12 on a packet-by-packet basis and the **index** section 49 is transmitted. The **header** section 28 includes a number of objects that describe the **ASF stream** 16 in aggregate. The **header** section 28 includes a **header** -Object 32 that identifies the beginning of the ASF header section 28 and specifies the ...The inclusion of this field 76 helps to identify the requirements necessary to play the **ASF stream** 16.

The **header** section 28 (Figure 3) must also include at least one stream Droverties object 36. The...

...the ASF stream 16. For example, one of the stream properties-objects 36 in the **header** section 28 may be associated with an **audio stream**, while another such object is associated with a video stream. Figure 7 depicts a format in bytes. A stream-type field 90 holds a value that identifies the **media type** of the associated stream.

The stream properties-object 36 holds at least three fields 92...

19/3,K/21 (Item 21 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00389801 **Image available**

METHOD AND APPARATUS FOR TRANSITIONS, REVERSE PLAY AND OTHER SPECIAL
EFFECTS IN DIGITAL MOTION VIDEO
PROCEDE ET DISPOSITIF POUR FONDU ENCHAINE, DEFILEMENT INVERSE ET AUTRES
EFFETS SPECIAUX APPLIQUES A L'IMAGE ANIMEE VIDEO NUMERIQUE

Patent Applicant/Assignee:

SAS INSTITUTE INC,

Inventor(s):

TOEBES John A VIII,

WALKER Douglas J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9730544 A2 19970821

Application: WO 97US2953 19970220 (PCT/WO US9702953)

Priority Application: US 9614716 19960220; US 9616975 19960506; US
97801254 19970219; US 97802870 19970219

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 21756

International Patent Class: G06F-13:00

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... an MPEG video stream in reverse display order beginning at any
selected frame within the **video stream** .

In the preferred embodiment. the GOP and Sequence **header** portions of
the **MPEG video stream** are ignored and the MPEG player is set to use
the default setting for all...3

SUBS I I I UTE SHEET (RULE 26)

P or B picture. If the **MPEG video stream** beinu decoded uses the GOP
headers or sequence **headers** within the stream to alter the MPEG
player's state. the **index** should also contain flags indicatinp, whether
the picture is the last picture in a GOP...

...where these are important in placing the player in the appropriate
state. While such an **index** can be created during runtime. for greater
efficiency such **index** is preferably created for each MPEG stream which
will be present in a product incorporating...

...Such pre-constructed indices are loaded into buffer when 1 0 appropriate
during runtime. The **index** may be stored ...GOP and sequence headers
will be required at which points in the bitstream, if the **MPEG stream**
is using these **headers** to convey state information to the player.

The second step is to place the player...

Claim

... 20. A computer-based system for initiating playback of a video from a
digitally compressed **MPEG video stream** . which **stream** contains
reference frames. dependent frames. GOP **headers** and sequence **headers** .
beginning at an arbitrarily selected frame
within said **video stream** comprising:
a. means for determining the location of the target frame,
b. means for determining...

...of the target frame. and said rmeans for identifying reference frames
comprise a pre-constructed **index** .

22 A computer-based system according to claim 21. wherein said
pre-constructed index is...the video stream. A system for initiating

playback of a video from a digitally compressed MPEG video stream .
which stream contains reference frames. dependent frames. GOP headers
and 20 sequence headers , beginning at an arbitrarily selected frame
within said video stream
comprising:
a. a computer:
b. said computer being programmed to determine the location of the...
...the reference frames to which the target frame directly and Indirectly
refers using a preconstructed index .

25 A computer-readable medium according to claim 24, wherein said
pre-constructed
index is...

Set	Items	Description
S1	392728	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC? OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB()(BROADCAST OR - CAST) OR MBONE? OR M()BONE
S2	551067	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL()(AUDIO? OR VIDEO?) OR ASF OR REAL()MEDIA
S3	43341	HEADER? OR FILE()(STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	2626	DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA)()TYPE?
S5	237932	SYNC OR SYNCs OR SYNCHRONI?
S6	196059	DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S7	14918	(BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? ? OR FILE? OR AUD- IO)(N)(INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET- INFO?
S8	52217	TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S9	7987	S1(2N)S2
S10	391	S9 AND S3
S11	54	S10 AND S5
S12	16	S11 AND (S4 OR S6 OR S7 OR S8)
S13	60	S10 AND (S4 OR S6 OR S7 OR S8)
S14	3	(S12 OR S13) AND IC=G06F-007
S15	10	(S12 OR S13) AND IC=(G06F? OR G09G?)
S16	24	S12 OR S14 OR S15
S17	24	IDPAT (sorted in duplicate/non-duplicate order)
S18	23	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200455
(c) 2004 Thomson Derwent

18/5/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015781915 **Image available**
WPI Acc No: 2003-844118/200378
XRPX Acc No: N03-674602

Real-time transport packet restoring apparatus for MPEG stream transmission, generates header corresponding to synchronization layer packet, based on packet number, composition and decoding time stamps assigned to packet

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: KANG S; LOBO A; KANG S U
Number of Countries: 034 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030185245	A1	20031002	US 2003401752	A	20030331	200378 B
EP 1351472	A2	20031008	EP 2003251930	A	20030327	200378
JP 2003304288	A	20031024	JP 200398388	A	20030401	200378
KR 2003079069	A	20031010	KR 200217833	A	20020401	200412

Priority Applications (No Type Date): KR 200217833 A 20020401

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030185245	A1	16	H04J-003/06	
EP 1351472	A2	E	H04L-029/06	

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
JP 2003304288 A 12 H04L-012/56
KR 2003079069 A H04L-012/56

Abstract (Basic): US 20030185245 A1

NOVELTY - A setting unit sequentially assigns a composition **time stamp** (CTS), decoding **time stamp** (DTS), packet sequence number (PSN) to a **synchronization** layer (SL) packet. The **time stamp** length, packet sequence number are extracted from SL configuration description within the packet. A generator generates a **header** corresponding to the packet, based on assigned CTS, DTS, PSN and extraction result.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following

- (1) real-time transmission protocol packet restoration method;
- (2) real-time transmission protocol packet generation method;
- (3) computer-readable medium storing real-time transmission protocol packet generation program; and
- (4) real-time transmission protocol packet restoration program.

USE - For restoring real-time transport protocol (RTP) packet for **MPEG -4 stream** transmission.

ADVANTAGE - Enables simplifying the encoding procedure at transmission side and decoding procedure at reception side effectively.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining the real-time transport protocol packet generation process.

pp; 16 DwgNo 6/8

Title Terms: REAL; TIME; TRANSPORT; PACKET; RESTORATION; APPARATUS; STREAM; TRANSMISSION; GENERATE; **HEADER**; CORRESPOND; **SYNCHRONISATION**; LAYER; PACKET; BASED; PACKET; NUMBER; COMPOSITION; DECODE; TIME; STAMP; ASSIGN; PACKET

Derwent Class: T01; W01; W02

International Patent Class (Main): H04J-003/06; H04L-012/56; H04L-029/06

International Patent Class (Additional): H04N-007/24

File Segment: EPI

18/5/6 (Item 6 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014928525 **Image available**
WPI Acc No: 2002-749234/200281
XRPX Acc No: N02-589949

Data management method in data processing system e.g. personal digital assistant, involves storing data elements which are session initiation protocol headers in data structure using index information

Patent Assignee: NORTEL NETWORKS LTD (NELE)

Inventor: ORTON S L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6438555	B1	20020820	US 99431994	A	19991102	200281 B

Priority Applications (No Type Date): US 99431994 A 19991102

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6438555	B1		18	G06F-017/30	

Abstract (Basic): US 6438555 B1

NOVELTY - A data packet having different types of data element is received. The data elements which are session initiation protocol **headers**, are stored in a data structure using **index** information. Each data structure stores **index** information for data elements of same type.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Received data management method;
- (2) Data processing system;
- (3) Computer program product storing program code for data processing program; and
- (4) Data processing method.

USE - For managing data in data processing system (claimed) such as personal-digital assistant (PDA) and set-top device used in homes. Also used for processing data stream for e.g. **MPEG** data **stream** containing **audio** and video. Also used to locate packets of particular type such as video packets, for processing and presentation.

ADVANTAGE - Reduces amount of resources needed to locate information. The data elements are identified or grouped by **data type** using vector or other data structure to store the location of the data for a particular type, thus the data of one type can be quickly located when that data is to be decompressed.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the steps of recalculation of new **header index** table based on existing vector of message **headers**.

pp; 18 DwgNo 8/12

Title Terms: DATA; MANAGEMENT; METHOD; DATA; PROCESS; SYSTEM; PERSON;
DIGITAL; ASSIST; STORAGE; DATA; ELEMENT; SESSION; INITIATE; PROTOCOL;
HEADER; DATA; STRUCTURE; **INDEX**; INFORMATION

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

18/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014697840 **Image available**
WPI Acc No: 2002-518544/200255
XRPX Acc No: N02-410430

Streaming service providing apparatus for Internet broadcast, has key index object which stores offset and temporal information of video block having key frame in video blocks, based on time axis for random access and reproduction

Patent Assignee: LG ELECTRONICS INC (GLDS)
Inventor: LEE G U; LEE S H; LEE K W
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020062313	A1	20020523	US 200140192	A	20011026	200255 B
KR 2002032803	A	20020504	KR 200063492	A	20001027	200271

Priority Applications (No Type Date): KR 200063492 A 20001027

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020062313	A1		8	G06F-007/00	
KR 2002032803	A			G06F-017/00	

Abstract (Basic): US 20020062313 A1

NOVELTY - A **header** (10) contains basic information about a file and the information for application service. A data object (20) **synchronizes** multimedia data with **temporal** information. A key **index** object (30) stores an offset and **temporal** information of a video block having a key frame in video blocks, based on the time axis for random access and reproduction.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Data storing apparatus; and
- (2) Streaming service provision method

USE - For providing streaming service for Internet broadcast Video On Demand (VOD), live-casting such as Active **Streaming** Format (**ASF**), **Real Media** (RM), etc.

ADVANTAGE - The random access and reproduction can be performed by using the key **index** information with various reproduction functions such as fast play, reverse play and random reproduction, etc. The data are transmitted quickly by reducing waste of bandwidths in the network.

DESCRIPTION OF DRAWING(S) - The figure shows an exemplary view illustrating a **file structure** for the streaming service.

Header (10)
Data object (20)
Key **index** object (30)
pp; 8 DwgNo 1/3

Title Terms: STREAM; SERVICE; APPARATUS; BROADCAST; KEY; **INDEX** ; OBJECT;
STORAGE; OFFSET; **TEMPORAL** ; INFORMATION; VIDEO; BLOCK; KEY; FRAME; VIDEO
; BLOCK; BASED; TIME; AXIS; RANDOM; ACCESS; REPRODUCE
Derwent Class: T01; W01
International Patent Class (Main): **G06F-007/00** ; **G06F-017/00**
File Segment: EPI

18/5/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014612622 **Image available**

WPI Acc No: 2002-433326/200246

XRPX Acc No: N02-340924

Video data-data control information synchronization apparatus in AV subsystem, receives data control information including display command in its action identifier field and data object field

Patent Assignee: INTEL CORP (ITLC)

Inventor: HUCKINS J L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6359656	B1	20020319	US 96772161	A	19961220	200246 B

Priority Applications (No Type Date): US 96772161 A 19961220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6359656	B1	13	H04N-011/04		

Abstract (Basic): US 6359656 B1

NOVELTY - A data handler (146) receives data payloads containing data control information which includes a command in an action identifier field and a data object field referencing a file location in a memory. The handler executes command from the identifier field and provides display of the located file in a display (141) through the data rendering device (147).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Video data-data control information **synchronization** method;
(b) Audio data-data control information **synchronization** apparatus;

(c) Audio data-data control information **synchronization** method
USE - For **synchronizing** data control information with video data in audio/video (A/V) subsystem for distributing audio/ **video** data using **real time** transfer protocol (RTP) and also for input device in video phone applications.

ADVANTAGE - Since data control information included in RTP packets is **synchronized** along with the audio and video data, an improved presentation of data to an end-user is obtained. Since the RTP **header** includes a **timestamp** field, the data is forwarded to the control filter at the appropriate time relative to other data.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the audio/video subsystem.

Data handler (146)

Data rendering device (147)

pp; 13 DwgNo 7/7

Title Terms: VIDEO; DATA; DATA; CONTROL; INFORMATION; **SYNCHRONISATION** ; APPARATUS; AV; SUBSYSTEM; RECEIVE; DATA; CONTROL; INFORMATION; DISPLAY; COMMAND; ACTION; IDENTIFY; FIELD; DATA; OBJECT; FIELD

Derwent Class: W01; W02

International Patent Class (Main): H04N-011/04

International Patent Class (Additional): H04J-003/06; H04L-007/06;

H04L-025/00; H04N-009/475; H04N-011/00

File Segment: EPI

18/5/9 (Item 9 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014552943 **Image available**
WPI Acc No: 2002-373646/200241
XRPX Acc No: N02-292056

MPEG -2 stream packet transmission apparatus used in personal
computer, extracts time stamp value from input packet header , for
unifying source packets

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI
SANGYO KK (MATU); YAMADA M (YAMA-I); YOSHIDA J (YOSH-I)

Inventor: YAMADA I; YOSHIDA J; YAMADA M

Number of Countries: 030 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1182812	A2	20020227	EP 2001120088	A	20010821	200241 B
US 20020075894	A1	20020620	US 2001934120	A	20010821	200244
JP 2002141917	A	20020517	JP 2000399304	A	20001227	200248
KR 2002015663	A	20020228	KR 200150533	A	20010822	200258
CN 1405671	A	20030326	CN 2001122293	A	20010822	200344

Priority Applications (No Type Date): JP 2000399304 A 20001227; JP
2000251485 A 20000822

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1182812	A2	E	52	H04J-003/06	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
US 20020075894	A1			H04L-012/66	
JP 2002141917	A		29	H04L-012/28	
KR 2002015663	A			H04L-012/56	
CN 1405671	A			G06F-007/00	

Abstract (Basic): EP 1182812 A2

NOVELTY - A judging unit (705) of PC (701) extracts time stamp
value from input packet header and unifies source packets that have
same time stamp value in series, to output as single packet data. A
CIP production unit (703) adds CIP data to the output packet data and
transmits the data through an IEEE1394 bus (707) to a receiver (708).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

(a) Packet mode determination method; Source packet generating
apparatus;

(b) Packet mode determination program;

(c) Source packet generation program;

(d) Packet transmission method;

(e) Source packet generation method;

(f) Recorded medium storing packet mode determination program;

(g) Recorded medium storing source packet generation program;

(h) Source packet transmission program;

(i) Recorded medium storing source packet transmission program

USE - For transmitting MPEG -2 stream packets to receiver e.g.
set top box, through IEEE1394 bus.

ADVANTAGE - Determines the integration of the TS packets into
isochronous packets and insertion of empty packet, based on the
extracted time stamp value, thereby facilitates the transmission of
the TS packet data read out from a hard disk through IEEE1394 bus based
on time stamp value.

DESCRIPTION OF DRAWING(S) - The figure shows a transmission
computer.

PC (701)

CIP production unit (703)

Judging unit (705)

IEEE1394 bus (707)

Receiver (708)

pp; 52 DwgNo 7/26

Title Terms: STREAM; PACKET; TRANSMISSION; APPARATUS; PERSON; COMPUTER;

EXTRACT; TIME; STAMP; VALUE; INPUT; PACKET; **HEADER** ; UNIFIED; SOURCE;
PACKET
Derwent Class: T01; W04
International Patent Class (Main): **G06F-007/00** ; H04J-003/06; H04L-012/28;
H04L-012/56; H04L-012/66
International Patent Class (Additional): **G06F-013/38** ; H04J-003/00;
H04L-029/08; H04N-007/24
File Segment: EPI

18/5/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014518476

WPI Acc No: 2002-339179/200237

XRPX Acc No: N02-266747

A computer or communications networking protocol specifies service enhancements in packet header extensions including a control field with frame position, stream index, time stamp and other sub-fields

Patent Assignee: SHAREWAVE INC (SHAR-N)

Inventor: GUBBI R R

Number of Countries: 095 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200206986	A2	20020124	WO 2001US15851	A	20010516	200237 B
AU 200163194	A	20020130	AU 200163194	A	20010516	200241
EP 1302048	A2	20030416	EP 2001937456	A	20010516	200328
			WO 2001US15851	A	20010516	

Priority Applications (No Type Date): US 2000615573 A 20000713

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200206986 A2 E 94 G06F-017/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL
PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200163194 A G06F-017/00 Based on patent WO 200206986

EP 1302048 A2 E H04L-029/06 Based on patent WO 200206986

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): WO 200206986 A2

NOVELTY - The arrangement is specifically for wireless connected computer networks as proposed in the IEEE Standard 802.11, 1999 Edition standard for such networks and provides reliable **multimedia** data **stream** connections. The enhancements provided include; use of MM time frame; use of MM-data and MM-command frame sub-types; a new MM-control field with frame position, stream **index**, BSS session ID and **time stamp**; capability information to include multimedia and PC capability; additional elements for Beacon, probe response frames; forward error correction based on Reed Solomon coding; a selective retransmission to improve efficiency; stream management and dynamic bandwidth negotiation schemes; new management commands covering stream creation, dynamic bandwidth management, retransmission, operation of PC in an overlapped subnet environment, proxy services, a channel change mechanism to group management commands and so on; and an efficient mechanism to combine management commands into one frame.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

(a) an interface between a wireless network component and the wireless medium

(b) a system including an interface

(c) and a machine readable medium carrying program instructions for implementing a network protocol

USE - In wireless connected computer networks.

ADVANTAGE - Enhanced network facilities.

pp; 94 DwgNo 0/56

Title Terms: COMPUTER; COMMUNICATE; PROTOCOL; SPECIFIED; SERVICE; PACKET;

HEADER; EXTEND; CONTROL; FIELD; FRAME; POSITION; STREAM; **INDEX**; TIME;

STAMP; SUB; FIELD

Derwent Class: T01; W01

International Patent Class (Main): **G06F-017/00** ; H04L-029/06

International Patent Class (Additional): H04L-012/58

File Segment: EPI

18/5/11 (Item 11 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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014447254 **Image available**
WPI Acc No: 2002-267957/200231
XRPX Acc No: N02-208424

Supporting subjective video at server via Internet method for interactive video communication e.g. multi-viewpoint video streaming, panoramic images using streaming protocol/file format to control downloads

Patent Assignee: REALITY COMMERCE CORP (REAL-N); AO Y (AOYY-I)

Inventor: AO Y

Number of Countries: 096 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200172041	A2	20010927	WO 2001IB680	A	20010323	200231 B
AU 200148698	A	20011003	AU 200148698	A	20010323	200231
EP 1269753	A2	20030102	EP 2001921732	A	20010323	200310
			WO 2001IB680	A	20010323	
US 20030172131	A1	20030911	WO 2001IB680	A	20010323	200367
			US 2003239415	A	20030512	

Priority Applications (No Type Date): US 2000191721 P 20000324; US 2003239415 A 20030512

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200172041	A2	E	56	H04N-007/173	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200148698	A			H04N-007/173	Based on patent WO 200172041
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EP 1269753	A2	E		H04N-007/173	Based on patent WO 200172041
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 20030172131	A1			H04N-007/173	
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Abstract (Basic): WO 200172041 A2

NOVELTY - A request relating to subjective video content is received, a view (geometric functions module) of the video content is accessed and an initial image data relating to an origin processing group of the view at will (VAW) file comprising file **headers**, code streams and offset table is provided.

DETAILED DESCRIPTION - A group identifier is used to determine subsequent requests, the initial image data and the subsequent image data comprises coded image data not derived from a 3-D model.

AN INDEPENDENT CLAIM is also included for an interactive **video streaming** system.

USE - For interactive video communication e.g. multi-viewpoint **video streaming**, panoramic images etc.

ADVANTAGE - The streaming server and the client together provide a system of bandwidth-smart controls (like wave-front, **scheduler**, caching etc) that allows the client to play the subjective video while the download is still taking place.

DESCRIPTION OF DRAWING(S) - The figure illustrates the basic steps in subjective **video streaming**.

View At Will (VAW)

pp; 56 DwgNo 4/17

Title Terms: SUPPORT; SUBJECT; VIDEO; SERVE; METHOD; INTERACT; VIDEO; COMMUNICATE; MULTI; VIDEO; STREAM; PANORAMIC; IMAGE; STREAM; PROTOCOL; FILE; FORMAT; CONTROL

Derwent Class: W02

International Patent Class (Main): H04N-007/173

International Patent Class (Additional): **G06F-015/16**

File Segment: EPI

18/5/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013229844 **Image available**

WPI Acc No: 2000-401718/200035

XRPX Acc No: N00-300858

**Compressed audio recording format for fast forward and backward audio
searching uses pointers to backward and forward packets**

Patent Assignee: PIONEER ELECTRIC CORP (PIOE); PIONEER CORP (PIOE);
PIONEER ELECTRONIC CORP (PIOE)

Inventor: SAWABE T; TOZAKI A; YAMAMOTO K

Number of Countries: 030 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1005044	A2	20000531	EP 99309371	A	19991124	200035 B
JP 2000163884	A	20000616	JP 98334828	A	19981125	200036
CN 1259734	A	20000712	CN 99115994	A	19991125	200054
KR 2000035649	A	20000626	KR 9952406	A	19991124	200111
TW 449717	A	20010811	TW 99120423	A	19991123	200237
JP 3359581	B2	20021224	JP 98334828	A	19981125	200304
JP 2003123395	A	20030425	JP 98334828	A	19981125	200337
			JP 2002215954	A	19981125	
US 6577589	B1	20030610	US 99447416	A	19991123	200340

Priority Applications (No Type Date): JP 98334828 A 19981125; JP 2002215954
A 19981125

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1005044	A2	E	35	G11B-027/10	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2000163884	A		32	G11B-020/12	
CN 1259734	A			G11B-020/10	
KR 2000035649	A			G11B-020/12	
TW 449717	A			G06F-007/06	
JP 3359581	B2		30	G11B-020/12	Previous Publ. patent JP 2000163884
JP 2003123395	A		23	G11B-020/12	Div ex application JP 98334828
US 6577589	B1			G11B-007/00	

Abstract (Basic): EP 1005044 A2

NOVELTY - The recording system takes an **audio stream** and compresses it into variable length unit for recording on DVD disks. Each unit (230) contains a **header** and a unit of data (243). The **header** (240) contains information such as the unit identity and presentation **time stamp**. It also contains a backward pointer and a forward pointer that link to audio packs that are a defined time, e.g. one second, removed from the time of the current audio pack. Fast forward and backward scans use these pointers.

USE - Recording structure for audio on DVD disks

ADVANTAGE - Allows reliable fast searching in both directions despite the variable length nature of the compression output.

DESCRIPTION OF DRAWING(S) - Audio storage structure

Units of audio (230)

Header including forward/backward pointers (240)

Audio data (243)

pp; 35 DwgNo 1/14

Title Terms: COMPRESS; AUDIO; RECORD; FORMAT; FAST; FORWARD; BACKWARD;

AUDIO; SEARCH; POINT; BACKWARD; FORWARD; PACKET

Derwent Class: P86; W04

International Patent Class (Main): G06F-007/06 ; G11B-007/00; G11B-020/10;

G11B-020/12; G11B-027/10

International Patent Class (Additional): G06F-007/22 ; G10L-019/00;

G11B-007/004; G11B-027/00; G11B-027/30

File Segment: EPI; EngPI

18/5/15 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011826264 **Image available**

WPI Acc No: 1998-243174/199822

Related WPI Acc No: 1998-242963; 1998-242964; 1998-243161; 1998-243166;
1998-243172

XRPX Acc No: N98-192497

**Associative memory for identifying and routing digital packets - has
television receiver extracting part of header of MPEG stream and
using associative memory to identify data type and route data**

Patent Assignee: TEXAS INSTR INC (TEXI)

Inventor: CHAUVEL G; COTTLE T D; SPITS T T; BENBASSAT G; CHAE B O; CHIANG Y
P; GIANI M; LACZKO F L; LASSERRE S; PALEY M E; SPITS T; WALKER K L

Number of Countries: 020 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 840520	A2	19980506	EP 97119121	A	19971103	199822 B
KR 98042026	A	19980817	KR 9757565	A	19971101	199937
US 6263396	B1	20010717	US 9629923	P	19961101	200142
			US 9630104	P	19961101	
			US 9630105	P	19961101	
			US 9630106	P	19961101	
			US 9630107	P	19961101	
			US 9630108	P	19961101	
			US 97962514	A	19971031	
			US 99235665	A	19990122	
US 6310657	B1	20011030	US 9629923	P	19961101	200172
			US 9630104	P	19961101	
			US 9630105	P	19961101	
			US 9630106	P	19961101	
			US 9630107	P	19961101	
			US 9630108	P	19961101	
			US 97962514	A	19971031	
			US 2000679000	A	20001004	
US 6369855	B1	20020409	US 9629923	P	19961101	200227
			US 9630104	P	19961101	
			US 9630105	P	19961101	
			US 9630106	P	19961101	
			US 9630107	P	19961101	
			US 9630108	P	19961101	
			US 97962514	A	19971031	
US 6414726	B1	20020702	US 9629923	P	19961101	200248
			US 97961958	A	19971031	
US 6452641	B1	20020917	US 9629923	P	19961101	200264
			US 9630104	P	19961101	
			US 9630105	P	19961101	
			US 9630106	P	19961101	
			US 9630107	P	19961101	
			US 9630108	P	19961101	
			US 97962514	A	19971031	
			US 2000677658	A	20001004	

Priority Applications (No Type Date): US 9629923 P 19961101; US 9630104 P
19961101; US 9630105 P 19961101; US 9630106 P 19961101; US 9630107 P
19961101; US 9630108 P 19961101; US 97962514 A 19971031; US 99235665 A
19990122; US 2000679000 A 20001004; US 97961958 A 19971031; US 2000677658
A 20001004

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 840520 A2 E 9 H04N-007/58

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE

KR 98042026 A H04L-012/56

US 6263396 B1 G06F-013/24 Provisional application US 9629923
Provisional application US 9630104

			Provisional application US 9630105
			Provisional application US 9630106
			Provisional application US 9630107
			Provisional application US 9630108
			Cont of application US 97962514
			patent EP 840276
			patent EP 840277
			patent EP 840505
			patent EP 840512
			patent EP 840520
US 6310657	B1	H04N-005/50	Provisional application US 9629923
			Provisional application US 9630104
			Provisional application US 9630105
			Provisional application US 9630106
			Provisional application US 9630107
			Provisional application US 9630108
			Div ex application US 97962514
US 6369855	B1	H04N-007/26	Provisional application US 9629923
			Provisional application US 9630104
			Provisional application US 9630105
			Provisional application US 9630106
			Provisional application US 9630107
			Provisional application US 9630108
US 6414726	B1	H04N-005/455	Provisional application US 9629923
US 6452641	B1	H04N-005/50	Provisional application US 9629923
			Provisional application US 9630104
			Provisional application US 9630105
			Provisional application US 9630106
			Provisional application US 9630107
			Provisional application US 9630108
			Div ex application US 97962514

Abstract (Basic): EP 840520 A

The television receiver accepts a serial input **stream** of **MPEG** (F1) data at 60 Mbps. This is processed by a decoder (30) which forwards the packets to a memory (36) with structures relating to the type of data, e.g. video, audio. The decoder also extracts the part of the **header** data of each packet which defines the type of data packet. This is passed to a content addressable memory (38) via an interface (40).

This memory holds the value of each packet type and circuits to concurrently compare an input value with all memory values. The output is an addressing signal (L2) which controls (34) where packets are held in the processor (32) memory.

ADVANTAGE - Simplifies receiver circuits by reducing need for FIFO's to delay stream while decoding **header** .

Dwg.4/6

Title Terms: ASSOCIATE; MEMORY; IDENTIFY; ROUTE; DIGITAL; PACKET;
TELEVISION; RECEIVE; EXTRACT; PART; **HEADER** ; STREAM; ASSOCIATE; MEMORY;
IDENTIFY; DATA; TYPE; ROUTE; DATA
Derwent Class: P85; T01; W01; W02; W03; W04
International Patent Class (Main): **G06F-013/24** ; H04L-012/56; H04N-005/455
; H04N-005/50; H04N-007/26; H04N-007/58
International Patent Class (Additional): **G06F-013/26** ; H04N-005/00
File Segment: EPI; EngPI

18/5/16 (Item 16 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011457536 **Image available**
WPI Acc No: 1997-435443/199740
Related WPI Acc No: 2002-535693
XRPX Acc No: N97-362176

Data file structure containing data especially for displaying animation - includes general information about animation and complete segment blocks of information representing single frames of animation

Patent Assignee: GEO INTERACTIVE MEDIA GROUP LTD (GEOI-N); CARMEL S (CARM-I); DABOOSH T (DABO-I); REIFMAN E (REIF-I); SHANI N (SHAN-I)

Inventor: CARMEL S; DABOOSH T; REIFMAN E; SHANI N

Number of Countries: 074 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9731445	A2	19970828	WO 97IB573	A	19970206	199740 B
AU 9726485	A	19970910	AU 9726485	A	19970206	199802
US 5841432	A	19981124	US 96594890	A	19960209	199903

Priority Applications (No Type Date): US 96594890 A 19960209

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9731445	A2	E	33	H04L-000/00	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ
VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE
LS LU MC MW NL OA PT SD SE SZ UG

AU 9726485	A		H04L-012/00	Based on patent WO 9731445
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US 5841432	A		G06T-001/00	
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Abstract (Basic): WO 9731445 A

The data **file structure** includes a block of data formed of general information for an entire animation file. Several segment **information blocks** make up the remainder of the data for displaying the animation. Each segment **information block** has two sections.

The first section includes general information data identifying the frame identification for the respective segment and the number of layers in the frame. It also includes data identifying the layer identification for the respective frame and the image, data defining the placement of the layer in the frame and ink data. The second section includes image identification data, background colour data, width and height of the image and data identifying the number of objects in the respective image, for each image in a frame. It also includes object type identification data, enclosing rectangle data, fill-in background and foreground data, pen background and foreground data, fill pattern data, line size data and ink data for each object.

USE/ADVANTAGE - For Internet. For computer network. Real time display. Conveying and operating on data over network to provide **real time multimedia** play, including display, particularly real time display of animation.

18/5/20 (Item 20 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010771155 **Image available**

WPI Acc No: 1996-268109/199627

XRPX Acc No: N96-225432

elementary stream packetising unit for an MPEG-2 system e.g. for digital broadcast television - has 1st time stamp generators for video and audio data, and multiplexes 1st header with video from buffer, and 2nd header with audio data from 2nd buffer

Patent Assignee: ELECTRONICS & TELECOM RES INST (ELTE-N); KOREA ELECTRONICS & TELECOM RES (KOEL-N)

Inventor: AHN C T; HO Y S; KIM D N; AHN C; HO Y; KIM D

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5521927	A	19960528	US 95404603	A	19950315	199627 B
JP 8168052	A	19960625	JP 9587214	A	19950412	199635
KR 137701	B1	19980515	KR 9434004	A	19941213	200014
JP 3034778	B2	20000417	JP 9587214	A	19950412	200024

Priority Applications (No Type Date): KR 9434004 A 19941213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5521927	A	10		H04N-007/50	
JP 3034778	B2	10		H04N-007/24	Previous Publ. patent JP 8168052
JP 8168052	A	8		H04N-007/24	
KR 137701	B1			H04N-007/13	

Abstract (Basic): US 5521927 A

The elementary stream packetising unit comprises a system time clock generator for sampling an external system clock signal at a resolution of a predetermined frequency. First and second **time stamp** generators latch a sampled value from the system time clock generator to generate a first presentation **time stamp** and a decoding **time stamp** for the process of **video elementary stream** data and a second presentation **time stamp** for the process of **audio elementary stream** data, respectively. First and second stream interface circuits input the video and **audio elementary stream** data and generate a group-of-picture detect signal and an audio frame synchronous word detection start signal, respectively. First and second buffers are provided for storing the video and **audio elementary stream** data and generating first and second **header** generation start signals, respectively.

A first multiplexer multiplexes a first **header** from a first **header** generator and the **video elementary stream** data to generate a packetised **video elementary stream**, and a second multiplexer multiplexes a second **header** from a second **header** generator and the **audio elementary stream** data to generate a packetised **audio elementary stream**.

ADVANTAGE - Efficient **synchronisation** of video and audio in decoder.

Dwg.1/5

Title Terms: ELEMENTARY; STREAM; UNIT; SYSTEM; DIGITAL; BROADCAST; TELEVISION; TIME; STAMP; GENERATOR; VIDEO; AUDIO; DATA; MULTIPLEX; **HEADER** ; VIDEO; BUFFER; **HEADER** ; AUDIO; DATA; BUFFER

Derwent Class: T01; W02; W04

International Patent Class (Main): H04N-007/13; H04N-007/24; H04N-007/50

International Patent Class (Additional): H04L-012/56

File Segment: EPI

Set	Items	Description
S1	3377135	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC? OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR - CAST) OR MBONE? OR M()BONE
S2	600281	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL() (AUDIO? OR VIDEO?) OR ASF OR REAL()MEDIA
S3	13586	HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	21226	DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA)()TYPE?
S5	169312	SYNC OR SYNCs OR SYNCHRONI?
S6	1107684	DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S7	4054	(BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? ? OR FILE? OR AUD- IO) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET- INFO?
S8	896011	TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S9	25039	S1(2N)S2
S10	154	S9 AND S3
S11	23	S10 AND S5
S12	11	S11 AND (S4 OR S6 OR S7 OR S8)
S13	30	S10 AND (S4 OR S6 OR S7 OR S8)
S14	42	S11 OR S13
S15	23	RD (unique items)
S16	12	S15 NOT PY>2000
S17	12	S16 NOT PD>20001024
File	8:EI Compendex(R) 1970-2004/Aug W4	(c) 2004 Elsevier Eng. Info. Inc.
File	35:Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12	(c) 2004 EBSCO Publishing
File	65:Inside Conferences 1993-2004/Aug W5	(c) 2004 BLDSC all rts. reserv.
File	2:INSPEC 1969-2004/Aug W4	(c) 2004 Institution of Electrical Engineers
File	94:JICST-EPlus 1985-2004/Aug W1	(c)2004 Japan Science and Tech Corp(JST)
File	111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 01	(c) 2004 The Gale Group
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	(c) 2003 EBSCO Pub.
File	6:NTIS 1964-2004/Aug W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144:Pascal 1973-2004/Aug W4	(c) 2004 INIST/CNRS
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5	(c) 2004 Inst for Sci Info
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.

Set	Items	Description
S1	3377135	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC? OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR - CAST) OR MBONE? OR M()BONE
S2	600281	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL() (AUDIO? OR VIDEO?) OR ASF OR REAL()MEDIA
S3	13586	HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	21226	DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA) ()TYPE?
S5	169312	SYNC OR SYNCs OR SYNCHRONI?
S6	1107684	DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S7	4054	(BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? ? OR FILE? OR AUD- IO) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET- INFO?
S8	896011	TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S9	25039	S1(2N)S2
S10	154	S9 AND S3
S11	23	S10 AND S5
S12	11	S11 AND (S4 OR S6 OR S7 OR S8)
S13	30	S10 AND (S4 OR S6 OR S7 OR S8)
S14	42	S11 OR S13
S15	23	RD (unique items)
S16	12	S15 NOT PY>2000
S17	12	S16 NOT PD>20001024
File	8: Ei Compendex(R) 1970-2004/Aug W4	(c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs. 1966-2004/Jul 12	(c) 2004 EBSCO Publishing
File	65: Inside Conferences 1993-2004/Aug W5	(c) 2004 BLDSC all rts. reserv.
File	2: INSPEC 1969-2004/Aug W4	(c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus 1985-2004/Aug W1	(c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM) 1979-2004/Sep 01	(c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs. 1981-2003/Sep	(c) 2003 EBSCO Pub.
File	6: NTIS 1964-2004/Aug W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal 1973-2004/Aug W4	(c) 2004 INIST/CNRS
File	34: SciSearch(R) Cited Ref Sci 1990-2004/Aug W5	(c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.

17/5/10 (Item 1 from file: 94)
DIALOG(R) File 94:JICST-EPlus
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04508453 JICST ACCESSION NUMBER: 00A0089214 FILE SEGMENT: JICST-E
**Multimedia Mobile Communication Systems. A Novel Error Control Algorithm
for Reducing Transmission Delay in Real - Time Mobile Video
Communication.**

MATOBAN (1); KONDO Y (1); OHTSUKA H (1); TANAKA T (1)
(1) Ntt Mobile Communication Network, Inc., Tokyo, Jpn
IEICE Trans Commun(Inst Electron Inf Commun Eng), 1999, VOL.E82-B,NO.12,
PAGE.2021-2030, FIG.16, TBL.1, REF.18

JOURNAL NUMBER: L1369AAW ISSN NO: 0916-8516
UNIVERSAL DECIMAL CLASSIFICATION: 621.397+654.197 621.396.73
LANGUAGE: English COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: This paper proposes a short delay, error-resilient video transmission scheme for mobile radio channels. Compressed video data are sensitive to channel error. Video coding schemes such as H.263 use variable length coding so channel error can cause **synchronization** failure in the decoder and fatally degrade the reconstructed video sequence by triggering intra- and inter-frame error propagation. ARQ prevents all forms of error propagation but significantly increases the transmission delay of the video frame. We propose a new error control scheme to reduce the delay incurred by ARQ; the receiving buffer can transmit the video frame data to the video decoder even if not all ARQ frames containing the video frame are received. The encoder transmits additional information, the Macro Block (MB) size, in the video frame **header**. Upon receiving this information, the receiving buffer can determine MB length which allows MB de-**synchronization** to be prevented. For example, if an ARQ frame is lost, the decoder determines the position of the missing MB and replace this MB with the equivalent block in the previous video frame; this prevents intra-frame error propagation. When all ARQ frames are received and decoded correctly, the video frame in the reference video memory is replaced with the correctly decoded one. Simulation results show that the proposed scheme can minimize the delay and the reduction in frame rate caused by retransmission control without intra- and inter-error propagation.
(author abst.)

DESCRIPTORS: mobile communication; picture communication; error control; request repeat; lazy evaluation; fading(communication); image quality; coder; decoder; computer simulation

BROADER DESCRIPTORS: telecommunication; control; communication operation; operation(processing); performance evaluation; evaluation; communication disturbance; disorder/trouble/obstacle; image characteristic; characteristic; signal converter; electric converter; converter; computer application; utilization; simulation

CLASSIFICATION CODE(S): ND12031N; ND08030H